

High-performance connector for docking applications

DuraDock power

ΕN



STÄUBLI ELECTRICAL CONNECTORS

Connections for Life



Stäubli, as the international technology leader, offers innovative mechatronics solutions in its four divisions: Electrical Connectors, Fluid Connectors, Robotics, and Textile. At Stäubli Electrical Connectors, we develop advanced connection solutions based on the reliable MULTILAM contact technology.

We create connections for life - and our customers are at the center of these connections. We are convinced that solid and stable partnerships directly contribute to our mutual success.

We take on the needs of our partners and deal with the most extraordinary challenges. As a result, we always create, sell and

support reliable and long-lasting products for markets with the highest productivity and safety requirements in close cooperation with our customers.

Together for reliable and safe connec-

We know that you entrust us with the functionality of your applications and we work hard to ensure this every single day. Thanks to our high level of expertise, our extensive experience and the multiple successful co-operation with our partners, numerous new developments have originated at Stäubli Electrical Connectors and subsequently have become worldwide standards. This includes our MC4 connector portfolio for which we are today the global market leader in photovoltaic. As the Stäubli original, the MC4 represents the result of our constant quest for innovation, quality and safety.

Further examples are the CombiTac modular connector system or the Quick Charging Connector (QCC) for automatic charging systems.

We ensure connections for life together with our long-standing customers in a wide range of industries from renewable energies, power transmission and distribution and E-mobility to industrial automation applications, railway and welding automation, test and measurement and medical devices.

Thus, developing reliable, efficient and safe solutions based on our proven MULTILAM contact technology, which guarantees a high service lifetime in addition to highly efficient power transmission.

Applications and benefits



Automated industrial applications with high mating cycles require constant and safe power transmission, especially for high currents and voltages. Stäubli delivers suitable high-performance connectors for advanced automation technology.

DuraDock power single-pole connectors were developed for the safe transmission of the highest energies and currents. They were designed for test applications with up to 100,000 mating cycles, where the highest service life, reliability, and safety are critical.

Areas of application

The connectors are suitable for a variety of industrial applications, e.g., in E-mobility, railways, and mechanical engineering.

Your benefits:

- Unparalleled advanced contact reliability thanks to MULTILAM contact technology
- Robust, reliable and user-friendly up to 100,000 mating cycles
- · High current-carrying capacity with minimal contact resistance for a long life span
- · Numerous possible combinations with the other connectors of the DuraDock multi series (four sizes with up to 72 poles) for almost all applications.

Test systems:

- · Automatic docking in test benches and production processes
- · Test bench technology in E-mobility and battery production
- · Test benches for wind turbines

Manufacturing:

• Test systems for in-line testing with high currents

Plant engineering:

- · Interface in manufacturing modules of modular production lines
- · Docking station to supply moving machines, for example, mobile melting furnaces



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General information

Changes/reservations

All data, illustrations, and drawings in the catalog have been carefully checked. They are in accordance with our experience to date, but no responsibility can be accepted for errors. We also reserve the right to make modifications for design and safety reasons. When designing equipment incorporating our components, it is therefore advisable not to rely solely on the data in the catalog but to consult us to make sure this information is up to date. We shall be pleased to advise you.

Copyright

The use of this catalog for any other purpose, in whatever form, without our prior written consent is not permitted.

RoHS ready

Directive 2011/65/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Symbols



Accessories or special tools exist for this product



Assembly instructions MA000 are available for this product









OVERVIEW

Model overview

DuraDock power is designed for currents up to 550 A, depending on conductor cross-section and contact diameter, and up to 100,000 mating cycles. Three versions are available:

- · uninsulated without housing
- · insulated in plastic housing
- shielded/insulated in metal housing

When unmated, the connectors are IP2X touch proof. With the uninsulated version, ensure that the contact protection on the cable outlet side is designed in accordance with our assembly instructions. For this version, the user must ensure there is protection against electric shock. The versions with housing have degree of protection IP54 (in-

sulated) or IP55 to IP57 (shielded/insulated). DuraDock power can be inserted in docking plates of 10 mm (0.39 in.) or 14 mm (0.55 in.) thickness, and at a plate spacing of 13 mm (0.51 in.) or 37 mm (1.45 in.). It is possible to combine different plate thicknesses, e.g. the plug side with 10 mm and the socket side with 14 mm thickness.

Nominal contact Ø	Rated current	Maximum conductor	cross-section	Version	Cable outlet	Page
16 mm (0.63 in.)	205 A – 300 A	35 mm² – 95 mm²	2 AWG – 3/0 AWG	uninsulated	straight	12
10 11111 (0.03 111.)	203 A = 300 A	33 11111 - 93 111111	2 AVVG = 3/0 AVVG	AWG - 3/0 AWG uninsulated		14
16 mm (0.63 in.)	205 A – 300 A	35 mm² – 95 mm²	2 AWG – 3/0 AWG	insulated	straight	16
10 11111 (0.03 111.)	205 A - 300 A	35 11111 - 95 11111	2 AVVG = 3/0 AVVG	irisulateu	angled 90°	18
00 mm (1 10 in)	410 A 550 A	120 mm² – 240 mm²	250 MCM – 450 MCM	uninsulated	straight	12
28 mm (1.10 in.)	410 A – 550 A	120 MM = 240 MM	250 MICIVI - 450 MICIVI	uninsulated	angled 90°	14
20 mm (1 10 in)	410 A – 550 A	120 mm² – 240 mm²	250 MCM – 450 MCM	insulated	straight	16
28 mm (1.10 in.)	410 A - 550 A	120 111111 - 240 111111	250 MON - 450 MON	irisulated	angled 90°	18
28 mm (1.10 in.)	410 A – 550 A	120 mm² – 240 mm²	250 MCM – 450 MCM	shielded/insulated	straight	20

Type code

Type code example:

DPR28P-ISD-CB185M50

DPR 28P-ISD-CB185M50	DuraDock power
DPR 28 P-ISD-CB185M50	Contact diameter (mm)
DPR28 P -ISD-CB185M50	P: Pin; S: Socket
DPR28P- ISD -CB185M50	Version, UIS: uninsulated; ISD: insulated; SDD: shielded/insulated
DPR28P-ISD- CB 185M50	CB: Crimp connection; CLG: Cable lug
DPR28P-ISD-CB 185 M50	Conductor cross-section: 120 mm²; 150 mm²; 185 mm²; 240 mm²
DPR28P-ISD-CB185 M50	Cable gland thread size: M50

Uninsulated version

- · Pre-assembled contact for direct installation in a docking plate or a device
- Cable outlet straight or angled 90°
- Degree of protection IP2X in unmated condition when installed according to our assembly instructions









Insulated version

- Pre-assembled contact in plastic hous-
- Cable outlet straight or angled 90°, the respective unused cable outlet is closed with the supplied blind plug
- Degree of protection IP54, IP2X

Shielded/insulated version

- Pre-assembled contact in metal housing
- Cable outlet straight
- Degree of protection IP55 to IP57, IP2X







Features





Safety and use

- IP2X touch protection on the pin and socket side
- Complete solution for fast mounting
- Plate installation without special tools

Variety and flexibility

- Conductor cross sections from 35 mm² to 240 mm² (from 2 AWG to ~450 MCM)
- Cable outlet straight or angled 90°
- Uninsulated, insulated, or shielded/insulated versions
- Suitable for plate thicknesses of 10 mm and 14 mm (0.39 and 0.55 in.)
- Suitable for plate spacing of 13 mm and 37 mm (0.51 and 1.45 in.)



Conductor cross sections from 120 mm² to 240 mm² (from ~250 MCM to ~450 MCM)

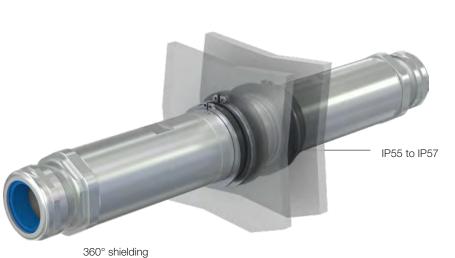
Performance and longevity

- High current-carrying capacity of up to 550 A
- High withstand voltage of up to 1500 V
- High mating cycles, up to 100,000
- · Very robust design for industrial environment
- Insulated versions with degree of protection up to IP57











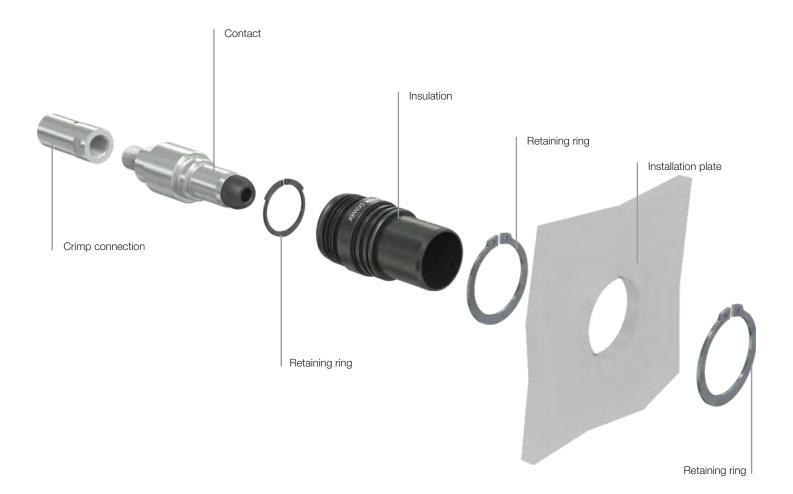
Installation situation

DuraDock power can be inserted in docking plates of 10 mm or 14 mm (0.39 or 0.55 in.) thickness, and at a plate spacing of 13 mm or 37 mm (0.51 and 1.45 in.). See page 29 for additional details.

Note:

The housing must not be used for mechanical alignment. Stable guiding elements must be used for safe application and correct alignment of the plates.

Locking has to be ensured by the plate de-





Installation example







DURADOCK POWER CONNECTOR

Uninsulated version

Cable outlet straight

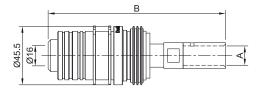
Pin and socket without housing. The cable is crimped with a straight cable outlet. The connector is pre-assembled. The crimp connection and retaining rings are included in the delivery

Note

The user has to ensure that the touch protection on the cable side has been implemented.

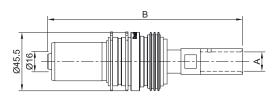
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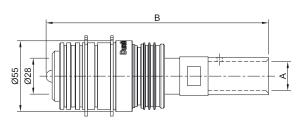
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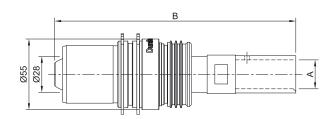
DPR28S-UIS-CB...





DPR28P-UIS-CB...







Order No.	Туре	Socket	Pin	Nominal contact Ø		Conductor cross-section	Crimp connection inner Ø	Dimension B	Rated current	Connection type
				mm	mm²	AWG/MCM	A (mm)	B (mm)	А	
DuraDock _I	power 16 (up to 300 A)									
18.0393	DPR16S-UIS-CB35	×						138		
18.0390	DPR16P-UIS-CB35		×	16	35	AWG 2	9	152	205	_
18.0394	DPR16S-UIS-CB50	×		10	50	A1A/O 1	44	138	040	ctio
18.0391	DPR16P-UIS-CB50		×	16	50	AWG 1	11	152	240	nne
18.0395	DPR16S-UIS-CB70	×		16	70	AWG 2/0	13	138	260	Crimp connection
18.0392	DPR16P-UIS-CB70		×	10	70	AWG 2/0	13	152	200	ir.
18.0541	DPR16S-UIS-CB95	×		16	95	AWG 3/0	15	138	300	O
18.0540	DPR16P-UIS-CB95		×	10	95	AWG 3/0	15	152	300	
DuraDock	power 28 (up to 550 A)									
18.0294	DPR28S-UIS-CB120	×		28	120	250 MCM	17	168	410	
18.0296	DPR28P-UIS-CB120		×	20	120	230 IVICIVI	17	183	410	_
18.0288	DPR28S-UIS-CB150	×		28	150	300 MCM	19	168	450	ctio
18.0286	DPR28P-UIS-CB150		×	20	130	300 IVICIVI	19	183	430	nne
18.0276	DPR28S-UIS-CB185	×		28	185	AWG 6/0	21	173	490	Crimp connection
18.0280	DPR28P-UIS-CB185		×	20	100	350 MCM	21	188	700	Crim
18.0266	DPR28S-UIS-CB240	×		28	240	AWG 7/0	22.5	173	550	O
18.0267	DPR28P-UIS-CB240		28 240	240	450 MCM	22.5	188	550		

450 MCM



18.0267

DPR28P-UIS-CB240

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Cable outlet bent 90°

Pin and socket without housing. When the cable outlet is angled the cable is connected using a cable lug. The connector is pre-assembled. The cable lug, retaining rings, and

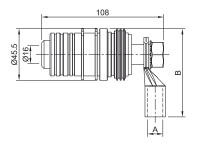
other installation accessories are included in the delivery.

Note

The user has to ensure that the touch protection on the cable side has been implemented.

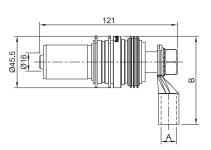
DPR16S-UIS-CLG...





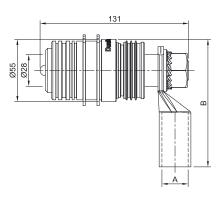
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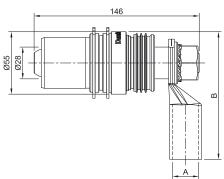
DPR28S-UIS-CLG...





DPR28P-UIS-CLG...







Order No.	Туре	Socket	Pin	Nominal contact Ø	Conductor	cross-section	Crimp connection inner Ø	Dimension B	Rated current	Connection type
				mm	mm²	AWG/MCM	A (mm)	B (mm)	А	
DuraDock po	wer 16 (up to 300 A)									
18.0544	DPR16S-UIS-CLG35	×		40	0.5	AVA/O O	0.0	00	005	
18.0547	DPR16P-UIS-CLG35		×	16	35	AWG 2	9,2	66	205	
18.0545	DPR16S-UIS-CLG50	×		16	50	AWG 1	11	71	240	ח
18.0548	DPR16P-UIS-CLG50		×	10	30	AWGT	11	7 1	240	Cable lug
18.0546	DPR16S-UIS-CLG70	×		16	70	AWG 2/0	13.1	74	260	Cabl
18.0549	DPR16P-UIS-CLG70		×	10	70	AVVG 2/0	13.1	74	200	O
18.0543	DPR16S-UIS-CLG95	×		16	95	AWG 3/0	14.5	78	300	
18.0542	DPR16P-UIS-CLG95		×	10	90	AVVG 3/0	14.5	70	300	
DuraDock po	wer 28 (up to 550 A)									
18.0293	DPR28S-UIS-CLG120	×		28	120	250 MCM	16.2	93.5	410	
18.0292	DPR28P-UIS-CLG120		×	28	120	250 IVICIVI	16.2	93.5	410	
18.0284	DPR28S-UIS-CLG150	×		28	150	300 MCM	18	97.5	450	70
18.0282	DPR28P-UIS-CLG150		×	20	150	300 IVICIVI	10	97.5	450	Cable lug
18.0278	DPR28S-UIS-CLG185	×		28	185	AWG 6/0	20.6	99.5	490	Sable
18.0274	DPR28P-UIS-CLG185		×	20	100	350 MCM	20.0	33.3	430	
18.0250	DPR28S-UIS-CLG240	×		28	240	AWG 7/0	23.1	112.5	550	
18.0249	DPR28P-UIS-CLG240		×	20	240	450 MCM	20.1	112.5	550	



Assembly instructions DuraDock power 16: MA313 DuraDock power 28: MA312 www.staubli.com/electrical



Insulated version

Cable outlet straight

Pin and socket in plastic housing consisting of two half-shells.

The connector is pre-assembled. The crimpi connection, housing, and other installation

accessories are included in the delivery (please correct in the hole flyer)

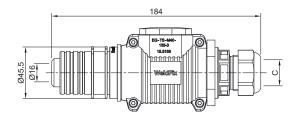
Note:

When using the straight cable outlet, the unused bent cable outlet is closed with a blind Pin (in the scope of delivery).

DPR16S-ISD-CB...M32



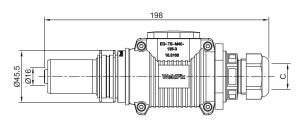
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DPR16P-ISD-CB...M32

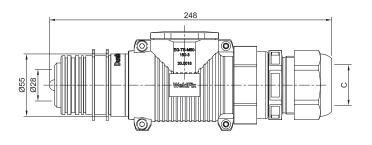


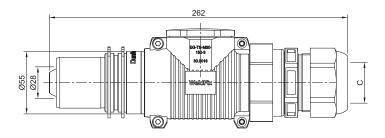
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DPR28S-ISD-CB...M50









Order No.	Туре	Socket	Pin	Nominal contact Ø		Conductor cross-section	Crimp connection inner Ø	Rated current	Cable Ø	Connection type
				mm	mm²	AWG/MCM	mm	А	C (mm)	
DuraDock	power 16 (up to 300 A)									
18.0524	DPR16S-ISD-CB35M32	×								
18.0396	DPR16P-ISD-CB35M32		×	16	35	AWG 2	9	205		_
18.0525	DPR16S-ISD-CB50M32	×						2.42	min. 9	tion
18.0397	DPR16P-ISD-CB50M32		×	16	50	AWG 1	11	240	max. 21	nnec
18.0526	DPR16S-ISD-CB70M32	×		16	70	AWG 2/0	13	260		Crimp connection
18.0398	DPR16P-ISD-CB70M32		×	10	70	AVVG 2/U	13	200		iri
18.0521	DPR16S-ISD-CB95M32	×		16	95	AWG 3/0	15	300	min. 19	O
18.0520	DPR16P-ISD-CB95M32		×	10	93	AVVG 5/0	10	300	max. 25	
DuraDock	power 28 (up to 550 A)									
18.0295	DPR28S-ISD-CB120M50	×								
18.0297	DPR28P-ISD-CB120M50		×	28	120	250 MCM	17	410		_
18.0289	DPR28S-ISD-CB150M50	×		00	450	000 14014	40	450		ction
18.0287	DPR28P-ISD-CB150M50		×	28	150	300 MCM	19	450	min. 16	Crimp connection
18.0277	DPR28S-ISD-CB185M50	×		28	185	AWG 6/0	21	490	max. 35	0 0
18.0281	DPR28P-ISD-CB185M50		×	20	100	350 MCM	۷1	430		rim
18.0253	DPR28S-ISD-CB240M50	×		28	240	AWG 7/0	22.5	550		O
18 0262	DDB38D_ISD_CB340M50		~	20	240	450 MCM	22.0	000		

450 MCM



18.0262

DPR28P-ISD-CB240M50

Assembly instructions DuraDock power 16: MA313 DuraDock power 28: MA312 www.staubli.com/electrical

Insulated version

Cable outlet bent 90°

Pin and socket in plastic housing consisting of two half-shells. The connector is pre-assembled. The cable lug, housing, and other installation accessories are included in the delivery.

Note:

When using the bent cable outlet, the unused straight cable outlet is closed with a blind Pin (in the scope of delivery).

DPR16S-ISD-CLG...M32



DPR16P-ISD-CLG...M32

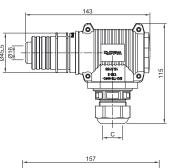


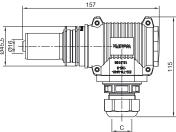
DPR28S-ISD-CLG...M50

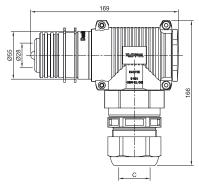


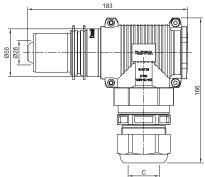
DPR28P-ISD-CLG...M50













Order No.	Туре	Socket	Pin	Nominal contact Ø	Conductor cross-section	Cable lug inner Ø	Rated current	Cable Ø	Connection type
				mm	mm² AWG/MCM	mm	А	C (mm)	

DuraDock power 16 (up to 300 A)

18.0527	DPR16S-ISD-CLG35M32	×		16	35	AWG 2	9.2	205		
18.0530	DPR16P-ISD-CLG35M32		×	10	33	AWGZ	5.2	203		ᅌ
18.0528	DPR16S-ISD-CLG50M32	×		16	50	AWG 1	11	240	min. 9	crimp
18.0531	DPR16P-ISD-CLG50M32		×	10	50	AWGT	11	240	max. 21	with
18.0529	DPR16S-ISD-CLG70M32	×		16	70	AWG 2/0	13.1	260		lug v
18.0532	DPR16P-ISD-CLG70M32		×	10	70	AWG 2/0	13.1	200		Cable
18.0523	DPR16S-ISD-CLG95M32	×		16	95	AVA/C 2/0	1 / E	200	min. 19	S
18.0522	DPR16P-ISD-CLG95M32		×	16	90	AWG 3/0	14.5	300	max. 25	

DuraDock power 28 (up to 550 A)

18.0290	DPR28S-ISD-CLG120M50	×		28	120	250 MCM	16.2	410		
18.0291	DPR28P-ISD-CLG120M50		×	20	120	230 IVICIVI	10.2	410		d _L
18.0285	DPR28S-ISD-CLG150M50	×		28	150	300 MCM	18	450		crimp
18.0283	DPR28P-ISD-CLG150M50		×	20	150	300 MCM	10	450	min. 16	with c ection
18.0279	DPR28S-ISD-CLG185M50	×		28	185	AWG 6/0	20.6	490	max. 35	lug
18.0275	DPR28P-ISD-CLG185M50		×	20	100	350 MCM	20.0	490		Cable
18.0254	DPR28S-ISD-CLG240M50	×		28	240	AWG 7/0	23.1	550		CS
18.0255	DPR28P-ISD-CLG240M50		×	20	240	450 MCM	23.1	330		



Assembly instructions DuraDock power 16: MA313 DuraDock power 28: MA312 www.staubli.com/electrical



Shielded/insulated version

Cable outlet straight

Pin and socket in shielded/insulated metal housing.

The connector is pre-assembled. The crimp connection, housing, and other installation accessories are included in the delivery.

Shielding principle

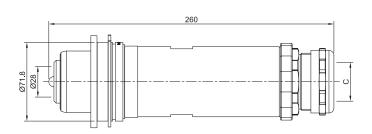
The Stäubli MULTILAM serves as contact elements between the housings. They extend the shield and ensure optimal 360° shielding. An EMC cable gland connects the shield.

Advantages

- Easy cabling with EMC cable gland
- No electrical connection between housing and installation plate
- Shielding loops are prevented during installation

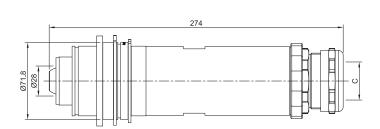
DPR28S-SDD-CB...





DPR28P-SDD-CB...







Order No.	Туре	Socket	Pin	Nominal contact Ø		Conductor cross-section	Crimp connection inner Ø	Rated current	Cable Ø	Connection type	Screw connection
				mm	mm²	AWG/MCM	mm	Α	C (mm)		

DuraDock power 28 (up to 550 A)

18.0271	DPR28S-SDD-CB120M40	×		28	120	250 MCM	17	410	min. 15		
18.0268	DPR28P-SDD-CB120M40		×	20	120	250 IVICIVI	17	410	max. 25	_	
18.0272	DPR28S-SDD-CB150M40	×		28	150	300 MCM	19	450	min. 15	ction	EMV
18.0269	DPR28P-SDD-CB150M40		×	20	150	300 IVICIVI	19	450	max. 25	Jue	(M40)
18.0273	DPR28S-SDD-CB185M40	×		28	185	AWG 6/0	21	490	min. 15	O O	
18.0270	DPR28P-SDD-CB185M40		×	20	100	350 MCM	21	490	max. 25	Crimp	
18.0252	DPR28S-SDD-CB240M50	×		00	040	AWG 7/0	00.5	550	min. 31	O	EMV
18.0251	DPR28P-SDD-CB240M50		×	28	240	450 MCM	22.5	550	max. 42		(M50)



Assembly instructions

DuraDock power 28: MA312

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ACCESSORIES

Tools

Open-ended wrench insert (for torque wrench)

Manufac- turer	Order No.	Туре	Description	Width across flats (mm)	required for	torque
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Stäubli tools



Stäubli	18.0551	DE SW57_A	Clamping tool insert	SW 57	Shielded/insulated version	<u></u> <u>M</u> <i>M A</i>
Staubii	18.0550	DE SW65-A	Clamping tool insert	SW 65	Silleided/ilisulated version	see MA 312

Tools of other manufacturer, not available via Stäubli



Stahlwille	731/100 SW 55	Jaw insertion tools No 731/100	Clamping tool insert, tool holder 22 mm x 28 mm (0.866 in. x 1.102 in.)	SW 55	Insulated version	<u> Д</u> МА
	731/100 SW 60			SW 60		see MA 312

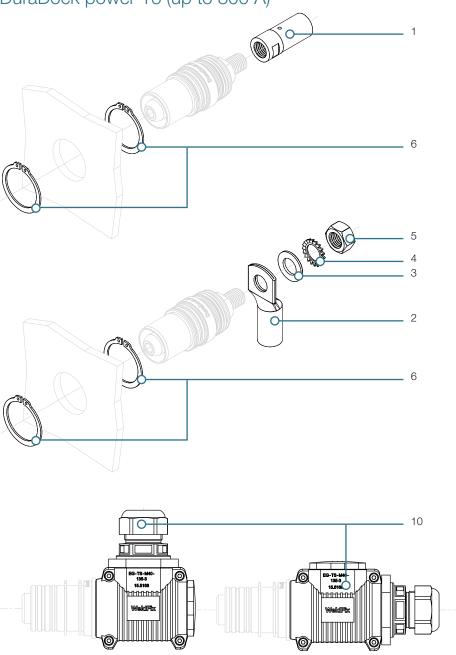


Manufacturer	Electrohydraulic pliers	Hand pliers	Crimping head	Possible conductor cross sections	Name	Condition
Klauke	×			16 mm² – 300 mm²	EK60VPFTCFM	
		×		10 mm ² – 240 mm ²	HK 60 VP	01 5 1 1 0
		×		16 mm² – 300 mm²	HK 60 VP/FT	Class 5 and class 6 cables
			×	10 mm² – 240 mm²	PK 60 VP	Cables
			×	16 mm² – 300 mm²	PK 60 VP/FT	



Spare parts

DuraDock power 16 (up to 300 A)





				Vers	ion	
Pos.	Order No.	Туре	Description	uninsulated	insulated	shielded
Crim	p connection	(cable outlet straight)				
1	18.7577	H35N/M14	Crimp connection, conductor cross section 35 mm ²	×	×	×
1	18.7580	H50N/M14	Crimp connection, conductor cross section 50 mm ²	×	×	×
1	18.7574	H70N/M14	Crimp connection, conductor cross section 70 mm ²	×	×	×
1	07.0022	H95N/M14	Crimp connection, conductor cross section 95 mm ²	×	×	×
Cable	e lugs and ac	cessories (cable outlet ben	t 90°)			
2	17.1015	K-SCH35-14/K	Cable lug, conductor cross section 35 mm ²	×	×	
2	17.1014	K-SCH50-14/K	Cable lug, conductor cross section 50 mm²	×	×	
2	17.1013	K-SCH70-14/K	Cable lug, conductor cross section 70 mm ²	×	×	
2	17.0067	K-SCH95-14/K	Cable lug, conductor cross section 95 mm ²	×	×	
3	08.0404	UE/M14X1 AG	Washer, all conductor cross sections	×	×	
4	08.0708	F/M14 DIN6798A BN781	Spring washer, all conductor cross sections	×	×	
5	08.0108	MU0,8D/M14 AG	Nut, all conductor cross sections	×	×	
Retai	ning rings					
6	18.5627	SI-RG A38 DIN471 FS	Retaining ring	×	×	
Hous	ings					
10	18.0569	SPD-DPR16-ISD	End housing with cable gland, conductor cross section 35 – 70 mm ²		×	
10	18.0572	SPD-DPR16S/95-ISD	End housing with cable gland, conductor cross section 95 mm ²		×	



Assembly instructions

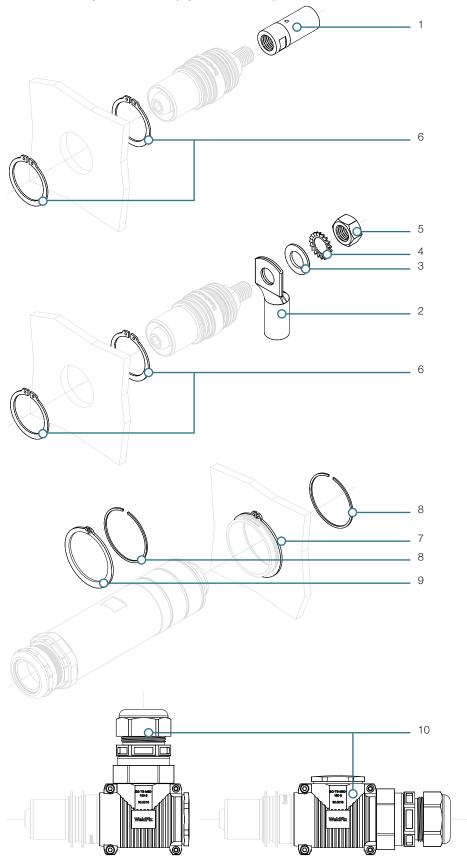
DuraDock power 16: MA313

www.staubli.com/electrical



Spare parts

DuraDock power 28 (up to 550 A)





Version

Pos.	Order No.	Туре	Description	uninsulated	insulated	shielded		
Crimp	Crimp connection (cable outlet straight)							
1	18.7566	H120N/M20	Crimp connection, conductor cross section 120 mm ²	×	×	×		
1	18.7563	H150N/M20	Crimp connection, conductor cross section 150 mm ²	×	×	×		
1	18.7560	H185N/M20	Crimp connection, conductor cross section 185 mm ²	×	×	×		
1	33004292	H240N/M20/DDP	Crimp connection, conductor cross section 240 mm ²	×	×	×		
Cable	lugs and acc	essories (cable outlet bent 9	0°)					
2	17.1011	K-SCH120-20/K	Cable lug, conductor cross section 120 mm ²	×	×			
2	17.1010	K-SCH150-20/K	Cable lug, conductor cross section 150 mm ²	×	×			
2	17.1009	K-SCH185-20/K	Cable lug, conductor cross section 185 mm ²	×	×			
2	17.0066	K-SCH240-20/K	Cable lug, conductor cross section 240 mm ²	×	×			
3	08.0311	U/M20 AG	Washer, all conductor cross sections	×	×			
4	08.0711	F/M20 DIN6798A BN781	Spring washer, all conductor cross sections	×	×			
5	08.0111	MU0,8D/M20 AG	Nut, all conductor cross sections	×	×			
Retaining rings and snap rings (for plate installation)								
6	18.5609	SI-RG A52 DIN471 FS	Retaining ring	×	×			
7	18.5805	SI-RG A72 DIN471	Retaining ring to fix the insulating sleeve to the plate			×		
8	33004186	SW65	Snap ring to fix the connector to insulating sleeve			×		
9	33004360	SI-RG A65 DIN471 BN682	Retaining ring for plate spacing 37 mm (only pin side)			×		
Housi	ngs							

End housing with cable gland, all conductor cross sections

The housing for the shielded version is not available as a spare part..

SPD-DPR28-ISD



Assembly instructions

18.0570

10

DuraDock power 28: MA312

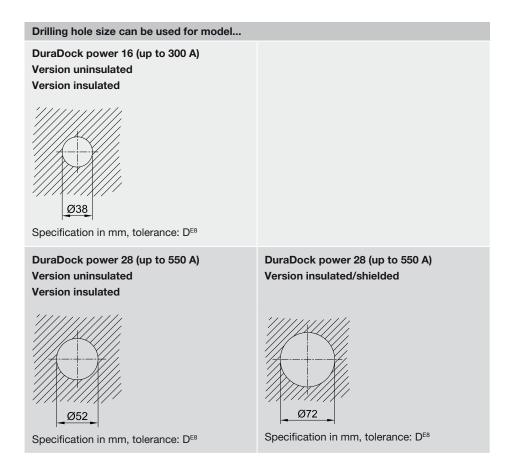
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TECHNICAL SPECIFICATIONS

Drilling plan and installation dimensions

Drilling plan for a docking plate



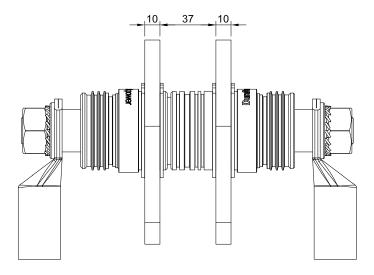


Installation dimensions

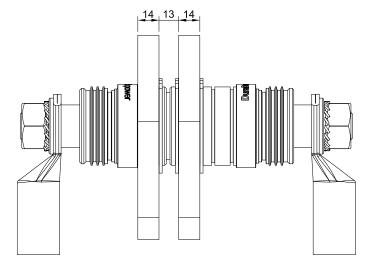
The installation plate has to be either 10 mm or 14 mm (0.39 or 0.55 in.) thick.

The spacing between these installation plates has to be either 13 mm or 37 mm (0.51 and 1.45 in.).

It is possible to combine the plate thicknesses, e.g. the plug side with 10 mm and the socket side with 14 mm thickness.



Example with 10 mm (0.39 in.) plate thickness and 37 mm (1.45 in.) plate spacing



Example with 14 mm (0.55 in.) plate thickness and 13 mm (0.51 in.) plate spacing



Technical data

	Version						
Technical data		Uninsulated	Insulated	Insulated/shielded			
Contact system			MULTILAM				
Rated current ⁾ (derating diagrams, from page 31)	DuraDock power 16 DuraDock power 28	max. 300 A max. 550 A					
Rated voltage		AC 25 V/DC 60 V (without protection area)	AC 1000 V	/DC 1500 V			
Conductor cross-section	Conductor cross-section DuraDock power 16 DuraDock power 28			35 mm² – 95 mm² (2 AWG – 3/0 AWG) 120 mm² – 240 mm² (250 MCM – 450 MCM) (95 mm² (3/0 AWG) on request)			
Overvoltage category			CATIII				
Degree of pollution			3				
Insulating material group			1				
Total contact resistance	DuraDock power 16 DuraDock power 28		<80 μΩ <30 μΩ				
Test voltage		8.25 kV (50 – 60 Hz) for 1 min.					
Insulation coordination according to IEC 60664-1, DIN VDE 0110-	1	15 kV					
Insulation temperature resistance		F	POM: -40 °C +100 °C				
Ambient temperature		max. 40 °C ¹⁾					
Operating temperature		-10 °C +100 °C					
Storage temperature			-40 °C +80 °C				
Protection type, unplugged		IP2X ²⁾	IP2X	IP2X			
Protection type, plugged in		IP2X ²⁾	IP54	IP55, IP56, IP57			
Total connector insertion force	DuraDock power 16 DuraDock power 28	max. 20 N max. 100 N	max. 130 N max. 200 N	- ca. 400 N			
Safety class			II				
Connection type	axial outlet 90° outlet		Crimp connection Cable lug				
Contact material		(CuZn alloy, silver-plated				
Insulation material			POM				
Housing material		-	PA	Aluminum alloy			
Shielding (360°) (diagrams, from page 33)		-	-	>71 dB			
Additional regulations			IEC 60664-1:2020 VDE 0627/EN 61984:200 DIN VDE 0298-4:2003	09			

Notes:

- The housing must not be used for mechanical alignment. Stable guides and alignment elements must be used for safe application and correct alignment of the plates (see illustration page 11).
- With the uninsulated version, ensure that the contact protection on the cable outlet side (behind the docking plate) is designed in accordance with the assembly instructions. The user must ensure there is protection against electric shock.

 $^{^{\}rm th}$ At ambient temperatures above 40°C the current must be reduced according to the derating diagram.

²⁾ Only in the insertion area in front of the plate (see note)



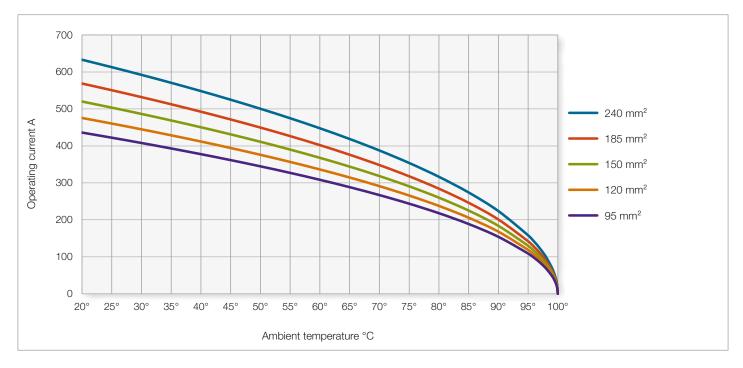
Derating diagram

The current-carrying capacity of connectors is limited by the thermal load capacity of the materials of the contact elements including connections and insulating parts. The derating curve applies to currents that are continuous, not intermittent, allowed to flow through each contact element of the connector, at the same time, without the upper temperature limit being exceeded.

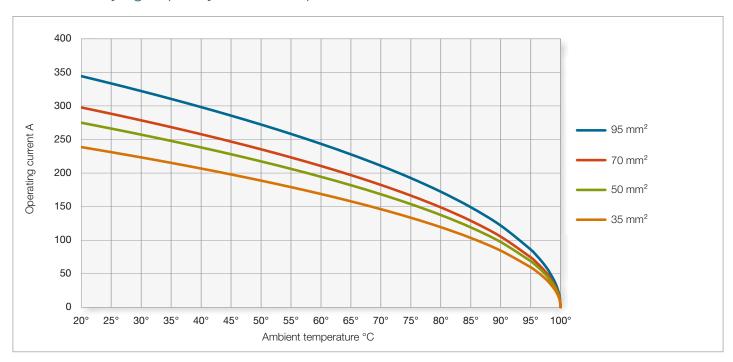
Measuring and test methods according to DIN 41640 Part 3.

The values given in the derating diagrams apply to connectors (see Standard EN 60204). For the permissible load of the cables, refer to the relevant regulations such as DIN VDE 0298-4 and DIN EN 60204-1, IEC 60204-1.

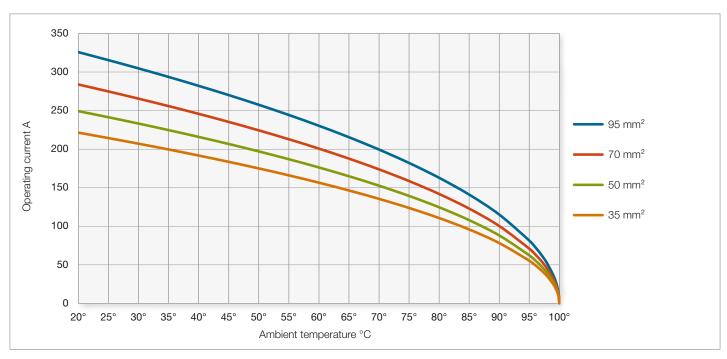
Current-carrying capacity DuraDock power 28



Current-carrying capacity DuraDock power 16, uninsulated and insulated



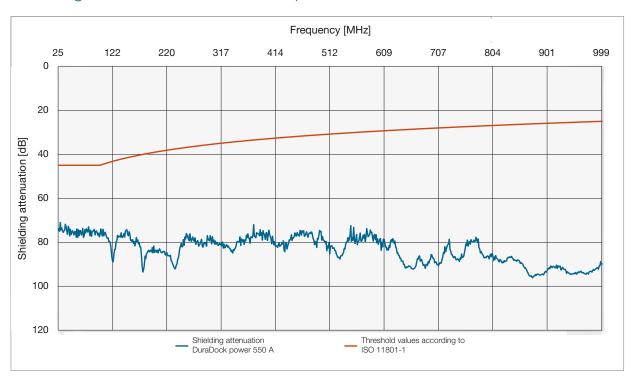
Current-carrying capacity DuraDock power 16, insulated/shielded



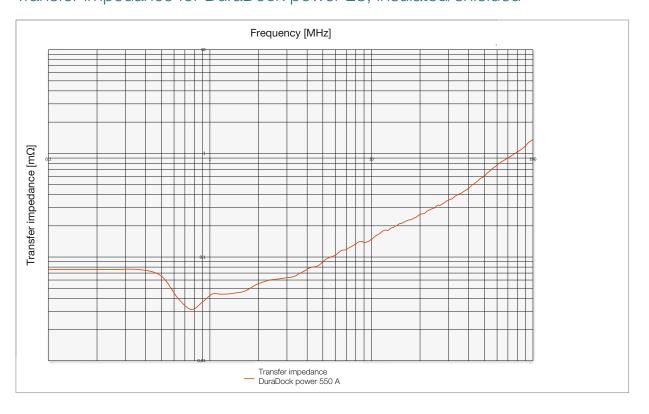


Diagrams for the shielded connectors

Shielding attenuation for DuraDock power 28, insulated/shielded



Transfer impedance for DuraDock power 28, insulated/shielded





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18.0287 DPR28P-ISD-CB150M50 17 18.0288 DPR28S-UIS-CB150 13 18.0289 DPR28S-ISD-CB150M50 17 18.0290 DPR28S-ISD-CLG120M50 19 18.0291 DPR28P-ISD-CLG120M50 19 18.0292 DPR28P-UIS-CLG120 15 18.0293 DPR28S-UIS-CLG120 15 18.0294 DPR28S-UIS-CB120 13 18.0295 DPR28S-ISD-CB120M50 17 18.0296 DPR28P-UIS-CB120 13 18.0297 DPR28P-UIS-CB120 13 18.0297 DPR28P-UIS-CB120M50 17 18.0390 DPR16P-UIS-CB35 13 18.0391 DPR16P-UIS-CB35 13 18.0392 DPR16P-UIS-CB50 13 18.0393 DPR16S-UIS-CB35 13 18.0394 DPR16S-UIS-CB35 13 18.0395 DPR16S-UIS-CB70 13 18.0396 DPR16P-ISD-CB35M32 17 18.0397 DPR16P-ISD-CB95M32 17 18.0520 DPR16P-ISD-CLG95M3			
18.0288 DPR28S-IJSC-CB150M50 17 18.0289 DPR28S-ISD-CB150M50 17 18.0290 DPR28S-ISD-CLG120M50 19 18.0291 DPR28P-IJSC-LG120M50 19 18.0292 DPR28P-UIS-CLG120 15 18.0293 DPR28S-UIS-CLG120 15 18.0294 DPR28S-UIS-CB120 13 18.0295 DPR28S-ISD-CB120M50 17 18.0296 DPR28P-IJS-CB120 13 18.0297 DPR28P-ISD-CB120M50 17 18.0390 DPR16P-UIS-CB35 13 18.0391 DPR16P-UIS-CB50 13 18.0392 DPR16P-UIS-CB50 13 18.0393 DPR16S-UIS-CB35 13 18.0394 DPR16S-UIS-CB50 13 18.0395 DPR16S-UIS-CB50 13 18.0396 DPR16S-UIS-CB35M32 17 18.0397 DPR16P-ISD-CB35M32 17 18.0398 DPR16P-ISD-CB95M32 17 18.0520 DPR16S-ISD-CLG95M32 19 18.0521 DPR16S-ISD-C	18.0286	DPR28P-UIS-CB150	13
18.0289 DPR28S-ISD-CB150M50 17 18.0290 DPR28S-ISD-CLG120M50 19 18.0291 DPR28P-ISD-CLG120M50 19 18.0292 DPR28P-UIS-CLG120 15 18.0293 DPR28S-UIS-CB120 15 18.0294 DPR28S-UIS-CB120 13 18.0295 DPR28S-ISD-CB120M50 17 18.0296 DPR28P-UIS-CB120 13 18.0297 DPR28P-ISD-CB120M50 17 18.0390 DPR16P-UIS-CB35 13 18.0391 DPR16P-UIS-CB50 13 18.0392 DPR16P-UIS-CB50 13 18.0393 DPR16S-UIS-CB35 13 18.0394 DPR16S-UIS-CB50 13 18.0395 DPR16S-UIS-CB50 13 18.0396 DPR16S-UIS-CB70 13 18.0397 DPR16S-UIS-CB70 13 18.0398 DPR16P-ISD-CB35M32 17 18.0520 DPR16P-ISD-CB95M32 17 18.0521 DPR16S-ISD-CLG95M32 19 18.0523 DPR16S-ISD-CB50M32 <td>18.0287</td> <td>DPR28P-ISD-CB150M50</td> <td>17</td>	18.0287	DPR28P-ISD-CB150M50	17
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18.0292 DPR28P-UIS-CLG120 15 18.0293 DPR28S-UIS-CLG120 15 18.0294 DPR28S-UIS-CB120 13 18.0295 DPR28S-ISD-CB120M50 17 18.0296 DPR28P-UIS-CB120 13 18.0297 DPR28P-ISD-CB120M50 17 18.0390 DPR16P-UIS-CB35 13 18.0391 DPR16P-UIS-CB50 13 18.0392 DPR16P-UIS-CB70 13 18.0393 DPR16S-UIS-CB50 13 18.0394 DPR16S-UIS-CB50 13 18.0395 DPR16S-UIS-CB50 13 18.0396 DPR16S-UIS-CB50 13 18.0395 DPR16S-UIS-CB50 13 18.0396 DPR16S-UIS-CB70 13 18.0397 DPR16P-ISD-CB50M32 17 18.0398 DPR16P-ISD-CB50M32 17 18.0520 DPR16P-ISD-CB95M32 17 18.0521 DPR16S-ISD-CLG95M32 19 18.0522 DPR16S-ISD-CB50M32 17 18.0523 DPR16S-ISD-CLG35M32	18.0290	DPR28S-ISD-CLG120M50	19
18.0293 DPR28S-UIS-CLG120 15 18.0294 DPR28S-UIS-CB120 13 18.0295 DPR28S-ISD-CB120M50 17 18.0296 DPR28P-UIS-CB120 13 18.0297 DPR28P-ISD-CB120M50 17 18.0390 DPR16P-UIS-CB35 13 18.0391 DPR16P-UIS-CB50 13 18.0392 DPR16P-UIS-CB50 13 18.0393 DPR16S-UIS-CB35 13 18.0394 DPR16S-UIS-CB50 13 18.0395 DPR16S-UIS-CB50 13 18.0396 DPR16S-UIS-CB50 13 18.0397 DPR16P-ISD-CB35M32 17 18.0398 DPR16P-ISD-CB50M32 17 18.0520 DPR16P-ISD-CB95M32 17 18.0521 DPR16S-ISD-CB95M32 17 18.0522 DPR16S-ISD-CLG95M32 19 18.0523 DPR16S-ISD-CB35M32 17 18.0525 DPR16S-ISD-CLG35M32 19 18.0526 DPR16S-ISD-CLG35M32 19 18.0527 DPR16S-ISD-CLG35M32	18.0291	DPR28P-ISD-CLG120M50	19
18.0294 DPR28S-UIS-CB120 13 18.0295 DPR28S-ISD-CB120M50 17 18.0296 DPR28P-UIS-CB120 13 18.0297 DPR28P-ISD-CB120M50 17 18.0390 DPR16P-UIS-CB35 13 18.0391 DPR16P-UIS-CB50 13 18.0392 DPR16P-UIS-CB70 13 18.0393 DPR16S-UIS-CB50 13 18.0394 DPR16S-UIS-CB50 13 18.0395 DPR16S-UIS-CB50 13 18.0396 DPR16S-UIS-CB70 13 18.0397 DPR16P-ISD-CB35M32 17 18.0398 DPR16P-ISD-CB35M32 17 18.0398 DPR16P-ISD-CB70M32 17 18.0520 DPR16S-ISD-CB95M32 17 18.0521 DPR16S-ISD-CLG95M32 19 18.0522 DPR16S-ISD-CLG95M32 19 18.0523 DPR16S-ISD-CB35M32 17 18.0525 DPR16S-ISD-CLG35M32 19 18.0526 DPR16S-ISD-CLG35M32 19 18.0527 DPR16S-ISD-CLG35M32 19 18.0528 DPR16P-ISD-CLG35M32 1	18.0292	DPR28P-UIS-CLG120	15
18.0295 DPR28S-ISD-CB120M50 17 18.0296 DPR28P-UIS-CB120 13 18.0297 DPR28P-ISD-CB120M50 17 18.0390 DPR16P-UIS-CB35 13 18.0391 DPR16P-UIS-CB50 13 18.0392 DPR16P-UIS-CB70 13 18.0393 DPR16S-UIS-CB35 13 18.0394 DPR16S-UIS-CB50 13 18.0395 DPR16S-UIS-CB50 13 18.0394 DPR16S-UIS-CB50 13 18.0395 DPR16S-UIS-CB50 13 18.0396 DPR16S-UIS-CB50 13 18.0397 DPR16S-UIS-CB70 13 18.0397 DPR16P-ISD-CB35M32 17 18.0520 DPR16P-ISD-CB70M32 17 18.0521 DPR16S-ISD-CB95M32 17 18.0522 DPR16S-ISD-CLG95M32 19 18.0523 DPR16S-ISD-CB30M32 17 18.0525 DPR16S-ISD-CLG35M32 19 18.0526 DPR16S-ISD-CLG30M32 19 18.0529 DPR16S-ISD-CLG30M32	18.0293	DPR28S-UIS-CLG120	15
18.0296 DPR28P-UIS-CB120 13 18.0297 DPR28P-ISD-CB120M50 17 18.0390 DPR16P-UIS-CB35 13 18.0391 DPR16P-UIS-CB50 13 18.0392 DPR16P-UIS-CB70 13 18.0393 DPR16S-UIS-CB35 13 18.0394 DPR16S-UIS-CB50 13 18.0395 DPR16S-UIS-CB50 13 18.0396 DPR16S-UIS-CB70 13 18.0397 DPR16S-UIS-CB70 13 18.0398 DPR16P-ISD-CB35M32 17 18.0397 DPR16P-ISD-CB35M32 17 18.0398 DPR16P-ISD-CB50M32 17 18.0520 DPR16P-ISD-CB95M32 17 18.0521 DPR16S-ISD-CLG95M32 19 18.0522 DPR16S-ISD-CLG95M32 19 18.0523 DPR16S-ISD-CB35M32 17 18.0525 DPR16S-ISD-CLG35M32 17 18.0526 DPR16S-ISD-CLG35M32 19 18.0527 DPR16S-ISD-CLG50M32 19 18.0529 DPR16S-ISD-CLG35M32 19 18.0530 DPR16P-ISD-CLG35M32 19	18.0294	DPR28S-UIS-CB120	13
18.0297 DPR28P-ISD-CB120M50 17 18.0390 DPR16P-UIS-CB35 13 18.0391 DPR16P-UIS-CB50 13 18.0392 DPR16P-UIS-CB70 13 18.0393 DPR16S-UIS-CB35 13 18.0394 DPR16S-UIS-CB50 13 18.0395 DPR16S-UIS-CB50 13 18.0396 DPR16S-UIS-CB70 13 18.0396 DPR16P-ISD-CB35M32 17 18.0397 DPR16P-ISD-CB35M32 17 18.0398 DPR16P-ISD-CB50M32 17 18.0398 DPR16P-ISD-CB70M32 17 18.0520 DPR16S-ISD-CB95M32 17 18.0521 DPR16S-ISD-CLG95M32 19 18.0522 DPR16S-ISD-CLG95M32 19 18.0523 DPR16S-ISD-CB35M32 17 18.0525 DPR16S-ISD-CLG35M32 19 18.0526 DPR16S-ISD-CLG35M32 19 18.0527 DPR16S-ISD-CLG35M32 19 18.0528 DPR16S-ISD-CLG35M32 19 18.0530 DPR16P-ISD-C	18.0295	DPR28S-ISD-CB120M50	17
18.0390 DPR16P-UIS-CB35 13 18.0391 DPR16P-UIS-CB50 13 18.0392 DPR16P-UIS-CB70 13 18.0393 DPR16S-UIS-CB35 13 18.0394 DPR16S-UIS-CB50 13 18.0395 DPR16S-UIS-CB70 13 18.0396 DPR16P-ISD-CB35M32 17 18.0397 DPR16P-ISD-CB35M32 17 18.0398 DPR16P-ISD-CB50M32 17 18.0520 DPR16P-ISD-CB95M32 17 18.0521 DPR16S-ISD-CB95M32 17 18.0522 DPR16P-ISD-CLG95M32 19 18.0523 DPR16S-ISD-CLG95M32 19 18.0524 DPR16S-ISD-CB35M32 17 18.0525 DPR16S-ISD-CB50M32 17 18.0526 DPR16S-ISD-CLG35M32 19 18.0527 DPR16S-ISD-CLG35M32 19 18.0528 DPR16S-ISD-CLG35M32 19 18.0529 DPR16S-ISD-CLG35M32 19 18.0531 DPR16P-ISD-CLG35M32 19 18.0532 DPR16P-ISD-CLG35M32 19 18.0540 DPR16P-US-CB95 <t< td=""><td>18.0296</td><td>DPR28P-UIS-CB120</td><td>13</td></t<>	18.0296	DPR28P-UIS-CB120	13
18.0391 DPR16P-UIS-CB50 13 18.0392 DPR16P-UIS-CB70 13 18.0393 DPR16S-UIS-CB35 13 18.0394 DPR16S-UIS-CB50 13 18.0395 DPR16S-UIS-CB70 13 18.0396 DPR16P-ISD-CB35M32 17 18.0397 DPR16P-ISD-CB50M32 17 18.0398 DPR16P-ISD-CB50M32 17 18.0520 DPR16P-ISD-CB95M32 17 18.0521 DPR16S-ISD-CB95M32 17 18.0522 DPR16S-ISD-CLG95M32 19 18.0523 DPR16S-ISD-CLG95M32 19 18.0524 DPR16S-ISD-CB35M32 17 18.0525 DPR16S-ISD-CB35M32 17 18.0526 DPR16S-ISD-CB50M32 17 18.0527 DPR16S-ISD-CLG35M32 19 18.0528 DPR16S-ISD-CLG50M32 19 18.0529 DPR16S-ISD-CLG50M32 19 18.0530 DPR16P-ISD-CLG35M32 19 18.0531 DPR16P-ISD-CLG50M32 19 18.0540 DPR16P-UIS-CB95 13 18.0541 DPR16S-UIS-CLG95 <	18.0297	DPR28P-ISD-CB120M50	17
18.0392 DPR16P-UIS-CB70 13 18.0393 DPR16S-UIS-CB35 13 18.0394 DPR16S-UIS-CB50 13 18.0395 DPR16S-UIS-CB70 13 18.0396 DPR16P-ISD-CB35M32 17 18.0397 DPR16P-ISD-CB50M32 17 18.0398 DPR16P-ISD-CB70M32 17 18.0520 DPR16P-ISD-CB95M32 17 18.0521 DPR16S-ISD-CB95M32 17 18.0522 DPR16S-ISD-CLG95M32 19 18.0523 DPR16S-ISD-CLG95M32 19 18.0524 DPR16S-ISD-CB35M32 17 18.0525 DPR16S-ISD-CB50M32 17 18.0526 DPR16S-ISD-CLG35M32 17 18.0527 DPR16S-ISD-CLG35M32 19 18.0528 DPR16S-ISD-CLG35M32 19 18.0529 DPR16S-ISD-CLG35M32 19 18.0530 DPR16P-ISD-CLG35M32 19 18.0531 DPR16P-ISD-CLG35M32 19 18.0540 DPR16P-ISD-CLG35M32 19 18.0541 DPR16S-UIS-CB95 13 18.0542 DPR16S-UIS-CLG95	18.0390	DPR16P-UIS-CB35	13
18.0393 DPR16S-UIS-CB35 13 18.0394 DPR16S-UIS-CB50 13 18.0395 DPR16S-UIS-CB70 13 18.0396 DPR16P-ISD-CB35M32 17 18.0397 DPR16P-ISD-CB50M32 17 18.0398 DPR16P-ISD-CB70M32 17 18.0520 DPR16P-ISD-CB95M32 17 18.0521 DPR16S-ISD-CB95M32 17 18.0522 DPR16P-ISD-CLG95M32 19 18.0523 DPR16S-ISD-CLG95M32 19 18.0524 DPR16S-ISD-CB35M32 17 18.0525 DPR16S-ISD-CB50M32 17 18.0526 DPR16S-ISD-CB50M32 17 18.0527 DPR16S-ISD-CLG35M32 19 18.0528 DPR16S-ISD-CLG35M32 19 18.0529 DPR16S-ISD-CLG35M32 19 18.0530 DPR16P-ISD-CLG35M32 19 18.0531 DPR16P-ISD-CLG50M32 19 18.0532 DPR16P-ISD-CLG50M32 19 18.0540 DPR16P-UIS-CB95 13 18.0541 DPR16S-UIS-CLG95 15 18.0543 DPR16S-UIS-CLG35	18.0391	DPR16P-UIS-CB50	13
18.0394 DPR16S-UIS-CB50 13 18.0395 DPR16S-UIS-CB70 13 18.0396 DPR16P-ISD-CB35M32 17 18.0397 DPR16P-ISD-CB50M32 17 18.0398 DPR16P-ISD-CB70M32 17 18.0520 DPR16P-ISD-CB95M32 17 18.0521 DPR16S-ISD-CB95M32 17 18.0522 DPR16P-ISD-CLG95M32 19 18.0523 DPR16S-ISD-CLG95M32 19 18.0524 DPR16S-ISD-CB35M32 17 18.0525 DPR16S-ISD-CB35M32 17 18.0526 DPR16S-ISD-CB50M32 17 18.0527 DPR16S-ISD-CLG35M32 19 18.0528 DPR16S-ISD-CLG50M32 19 18.0529 DPR16S-ISD-CLG50M32 19 18.0530 DPR16P-ISD-CLG35M32 19 18.0531 DPR16P-ISD-CLG50M32 19 18.0542 DPR16P-UIS-CB95 13 18.0543 DPR16S-UIS-CLG95 15 18.0544 DPR16S-UIS-CLG35 15 18.0545 DPR16S-UIS-CLG50 15	18.0392	DPR16P-UIS-CB70	13
18.0395 DPR16S-UIS-CB70 13 18.0396 DPR16P-ISD-CB35M32 17 18.0397 DPR16P-ISD-CB50M32 17 18.0398 DPR16P-ISD-CB70M32 17 18.0520 DPR16P-ISD-CB95M32 17 18.0521 DPR16S-ISD-CB95M32 17 18.0522 DPR16P-ISD-CLG95M32 19 18.0523 DPR16S-ISD-CLG95M32 19 18.0524 DPR16S-ISD-CB35M32 17 18.0525 DPR16S-ISD-CB50M32 17 18.0526 DPR16S-ISD-CB50M32 17 18.0527 DPR16S-ISD-CLG35M32 19 18.0528 DPR16S-ISD-CLG30M32 19 18.0529 DPR16S-ISD-CLG30M32 19 18.0530 DPR16P-ISD-CLG35M32 19 18.0531 DPR16P-ISD-CLG30M32 19 18.0532 DPR16P-ISD-CLG70M32 19 18.0540 DPR16P-UIS-CB95 13 18.0541 DPR16S-UIS-CLG95 15 18.0543 DPR16S-UIS-CLG35 15 18.0545	18.0393	DPR16S-UIS-CB35	13
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18.0397 DPR16P-ISD-CB50M32 17 18.0398 DPR16P-ISD-CB70M32 17 18.0520 DPR16P-ISD-CB95M32 17 18.0521 DPR16S-ISD-CB95M32 17 18.0522 DPR16P-ISD-CLG95M32 19 18.0523 DPR16S-ISD-CLG95M32 19 18.0524 DPR16S-ISD-CB35M32 17 18.0525 DPR16S-ISD-CB50M32 17 18.0526 DPR16S-ISD-CB50M32 17 18.0527 DPR16S-ISD-CLG35M32 19 18.0528 DPR16S-ISD-CLG50M32 19 18.0529 DPR16S-ISD-CLG70M32 19 18.0530 DPR16P-ISD-CLG35M32 19 18.0531 DPR16P-ISD-CLG50M32 19 18.0532 DPR16P-ISD-CLG70M32 19 18.0540 DPR16P-UIS-CB95 13 18.0541 DPR16S-UIS-CLG95 15 18.0543 DPR16S-UIS-CLG35 15 18.0545 DPR16S-UIS-CLG50 15	18.0395	DPR16S-UIS-CB70	13
18.0398 DPR16P-ISD-CB70M32 17 18.0520 DPR16P-ISD-CB95M32 17 18.0521 DPR16S-ISD-CB95M32 17 18.0522 DPR16P-ISD-CLG95M32 19 18.0523 DPR16S-ISD-CLG95M32 19 18.0524 DPR16S-ISD-CB35M32 17 18.0525 DPR16S-ISD-CB50M32 17 18.0526 DPR16S-ISD-CLG35M32 19 18.0527 DPR16S-ISD-CLG35M32 19 18.0528 DPR16S-ISD-CLG50M32 19 18.0529 DPR16S-ISD-CLG70M32 19 18.0530 DPR16P-ISD-CLG35M32 19 18.0531 DPR16P-ISD-CLG30M32 19 18.0532 DPR16P-ISD-CLG70M32 19 18.0540 DPR16P-UIS-CB95 13 18.0541 DPR16S-UIS-CLG95 15 18.0543 DPR16S-UIS-CLG35 15 18.0545 DPR16S-UIS-CLG50 15	18.0396	DPR16P-ISD-CB35M32	17
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